Assignment 1

- 1. For this sample, the average of monthly earnings is US\$ 957.95, with a mean of 13.47 years of education and an average working experience of 11.56 years. Finally, the individuals in this sample have an IQ of 101.28 points, on average
- 2. Individuals in this sample have an IQ of 101.28 on average with a standard deviation of 15.05 points.
- 3. There are 393 individuals in the sample with exactly 12 years of education, this is almost 42.03% of the sample.
- 4. Using the k-12 system in the USA and the maximum years of education that anyone have in the sample, which is 18 years, I conclude that the maximum level of education that anyone reached in the sample is a master degree.
- 5. $ln(wage) = 4.858 + 0.051_{(0.0079)} educ + 0.013_{(0.0039)} exper + 0.006_{(0.001)} IQ + 0.014_{(0.005)} age$
- 6. If we increase education by one year, we expect wages to increase by approximately 5.1 percent, while holding the other factors constant.
- 7. If education is increased by one year and experience is decreased by one year, wages is expected to change by approximately 3.78 percent, holding the other factors constant.
- 8. For the given values and sample, I predict the ln(wage) of my friend to be approximately 6.60, on average.
- 9. Approximately 17% of the variation in Ln(wage) can be explained by the set of the four covariates.
- 10. When testing the null hypothesis H_0 : educ = exper = 0 vs. the alternative H_a : at least one of educ, $exper \neq 0$ at the 5% level we found an F-statistic (2, 930) equal to 20.76, then I reject the null and conclude that the coefficients educ and exper

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are significant. Note that these coefficients are significant at even less than the 0.1% level.